

Claims

1. A method of regenerating a support catalyst, which is coated with gold particles and which is based on titanium dioxide or hydrous titanium dioxide, for the oxidation of unsaturated hydrocarbons in the gas phase, characterised in that the catalytic activity of the catalyst is regenerated by bringing it into contact with water or with dilute acid or with a dilute hydrogen peroxide solution.

5

10 2. A method according to claim 1, characterised in that a catalyst which is produced by the "deposition-precipitation" method is regenerated.

15 3. A method according to either one of claims 1 or 2, characterised in that the catalyst is optionally regenerated with steam under pressure.

4. A method according to either one of claims 1 or 2, characterised in that an aqueous hydrogen peroxide solution of concentration up to 10 % is used.

20 5. The use of a support catalyst which is regenerated according to any one of claims 1 to 4 for the epoxidation of unsaturated hydrocarbons in the gas phase.

*Add B1*

*Add B1 >*

*Add C5*